Title (en)
METHOD FOR THE USER-DEFINED SEPARATING OF A SUBMODEL FROM A CAD MODEL AND A DEVICE FOR DATA PROCESSING

Title (de)
VERFAHREN ZUM NUTZERDEFINIERTEN HERAUSLÖSEN EINES SUBMODELLS AUS EINEM CAD-MODELL UND EINE VORRICHTUNG ZUR DATENVERARBEITUNG

Title (fr)
PROCÉDÉ DE SÉPARATION DÉFINIE PAR L'UTILISATEUR D'UN SOUS-MODÈLE D'UN MODÈLE CAO ET DISPOSITIF DE TRAITEMENT DE DONNÉES

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Abstract (en)
[origin: WO2021191459A1] The invention relates to a method for the user-defined separating of a submodel (4) from a CAD model (1), in which files of a CAD model (1) are read and one or more objects (2) of the CAD model (1) are displayed on a graphical user interface having a design space (3). A user input for determining at least one submodel (4) to be separated from the CAD model (1) is captured. The user input is made on the object(s) (2) displayed on the graphical user interface. Then, a dividing curve (5) is generated in the design space (3) in accordance with the captured user input, the dividing curve (5) defining an edge section of the submodel (4) to be separated from the CAD model (1). The dividing curve (5) is extruded in the design space (3) along an adjustable extrusion direction (A) and the submodel (4) is separated from the CAD model (1) by a dividing operation along the extruded dividing curve (5). The separated submodel (4) and the interfaces (6) thereof are provided in a newly generated file and transferred to another user or to a work station of the other user in order to enable the other user to modify the submodel (4) in the new file independently of the CAD model (1). The new file which was modified by the other user and comprises the modified submodel (7) is then received and the modified submodel (7) from the modified new file is inserted in the CAD model (1). Finally, the modified submodel (7) is arranged in accordance with the interfaces (6) of the submodel (4).

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